

ILLINOIS WEATHER & CROPS



**ILLINOIS
COOPERATIVE CROP
REPORTING SERVICE**

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CROP HI-LITES

*** Corn - 78% dough, 34% dented
*** Soybeans - 93% blooming, 78% setting pods
*** Soil Moisture - 19% short
74% adequate
7% surplus

CORN condition on Friday, August 13, was reported as 50% excellent and 50% good. Seventy-eight percent of the corn crop was in the dough stage on Sunday, August 15, compared to 73% last year and the 5-year average (1977-81) of 75%. Thirty-four percent of the crop is dented compared to 28% last year and an average of 36%.

BEANS on August 13 were reported as 36% in excellent condition, 61% good and 3% fair. Ninety-three percent of the soybeans were blooming on August 15 compared to 93% last year and an average of 96%. Seventy-eight percent of the crop was setting pods compared to 64% last year and an average of 77%. A few fields in Southern Illinois were starting to turn yellow.

The OATS crop on August 15 was 99% combined compared to 100% last year and an average of 100%.

ALFALFA HAY was reported as 25% excellent, 64% good and 11% fair on August 13. About 35% of the third crop was cut by August 15 compared to 41% last year and an average of 39%.

PASTURES on August 13 were reported as 36% excellent, 50% good, 11% fair and 3% poor.

SOIL MOISTURE was reported as 19% short, 74% adequate and 7% surplus on August 13.

There were 5.25 DAYS SUITABLE FOR FIELDWORK for the ending August 13.

WEATHER

TEMPERATURES for the period of August 9 thru 15 averaged 5 to 12 degrees below normal in a record breaking cool week. Early morning temperatures dropped to the upper 40's and low 50's over much of the State on the 11th and 12th. Average temperatures recovered somewhat by the weekend, but still remained a few degrees below those to be expected in mid-August.

PRECIPITATION was none to light in Northern Illinois and moderate in the southern half of the State. Weekly total rainfalls south of a Quincy-Springfield-Danville line were in the range of $\frac{1}{2}$ to 1 inch.

The OUTLOOK for the period of August 16 thru 22 is for slightly below normal temperatures and below normal precipitation.

SOIL MOISTURE MEASUREMENTS

The general trend in soil moisture during the past week in moderately well-drained Flanagan soil in Champaign County is a gradual reduction according to measurements taken by the Illinois State Water Survey on August 9, 1982. Two shower periods resulting in a total accumulation of 0.71 inch of precipitation reduced the moisture loss in the upper layers. Soil moisture from the surface to nearly 7 feet decreased the Potential Plant Available Moisture (PPAM) from 62% to 60%. From the surface to 4 inches depth there was no appreciable change in PPAM from 25%. From 4 inches depth to 12 inches below the surface the PPAM increased from 9% to 15% while the layer between 12 and 20 inches depth decreased from 40% to 31%. Deeper layers generally showed decreases.

ILLINOIS CROP REPORTING DISTRICT SUMMARY

| Crop and Soil Characteristics | NW | NE | W | C | E | WSW | ESE | SW | SE | STATE | 5-YR. AVG. |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------------|
| Corn: % dented (as of August 15) | 30 | 25 | 40 | 30 | 25 | 45 | 40 | 50 | 45 | 34 | 36 |
| Soybeans: % bloomed (as of August 15) | 95 | 98 | 95 | 96 | 100 | 87 | 90 | 88 | 90 | 93 | 96 |
| Alfalfa: % 3rd crop cut (as of August 15) | 25 | 35 | 35 | 25 | 20 | 30 | 50 | 75 | 55 | 35 | 39 |
| Days suitable for fieldwork: (week ending Aug. 13) | 6.0 | 5.5 | 5.0 | 5.5 | 5.0 | 5.0 | 5.0 | 5.0 | 6.5 | 5.25 | |
| Soil moisture %: | | | | | | | | | | | |
| of Aug. 13) Short | - | 15 | 15 | 25 | 30 | 15 | 20 | 20 | 40 | 19 | |
| Adequate | 80 | 50 | 85 | 75 | 55 | 85 | 80 | 80 | 60 | 74 | |
| Surplus | 20 | 35 | - | - | 15 | - | - | - | - | 7 | |

- OVER -

Illinois Weather & Crops
August 16, 1982

ILLINOIS WEATHER

MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

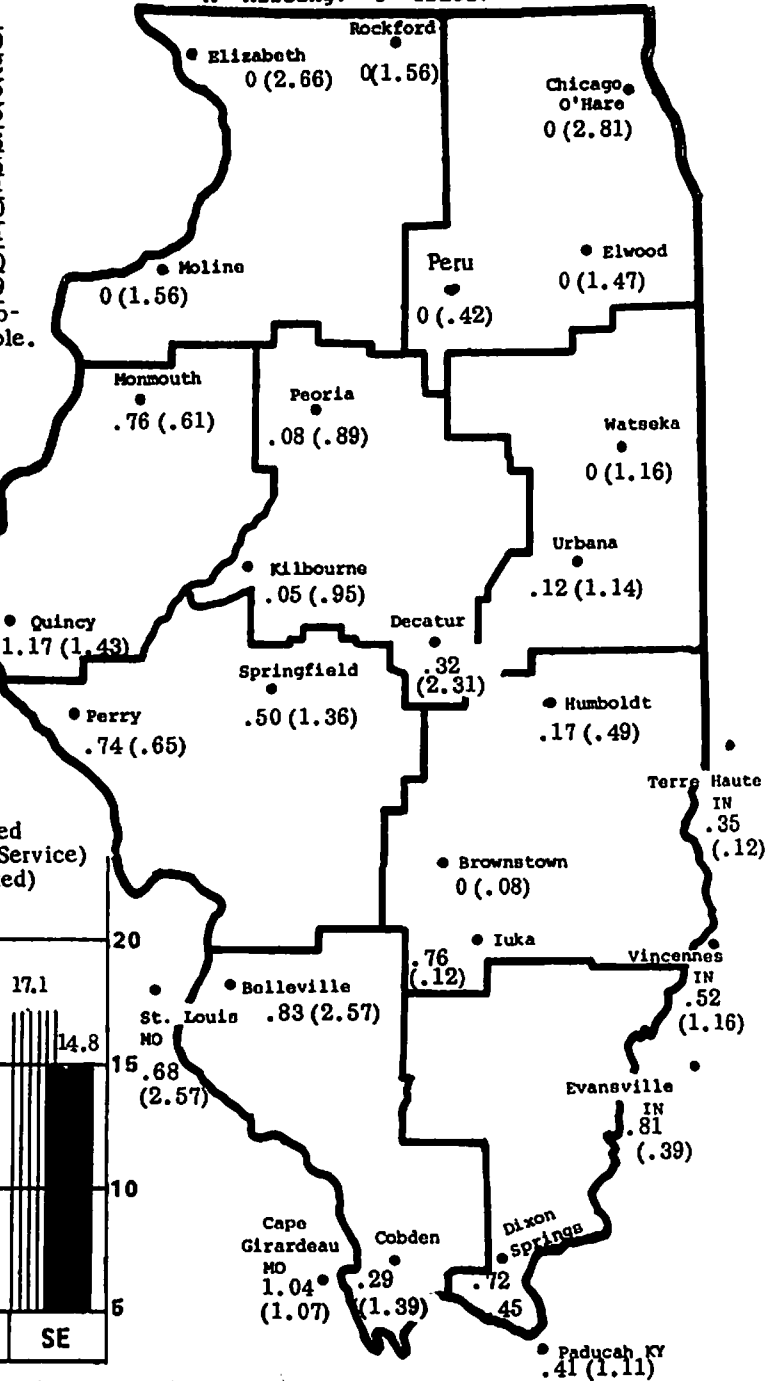
| | May | June | June 29- July 5 | July 6 12 | July 13- 19 | July 20- 26 | July 27- Aug. 2 | August 3- 9 | August 10- 16 |
|-------------|-----|------|--------------------|--------------|----------------|----------------|--------------------|----------------|------------------|
| Chicago | +6 | -6 | -3 | +3 | +7 | +3 | +3 | +4 | -5 |
| Peoria | +7 | -4 | 0 | +2 | +4 | +2 | 0 | +5 | -6 |
| Springfield | +7 | -5 | 0 | +2 | +4 | +1 | -1 | +6 | -6 |
| St. Louis | +6 | -4 | 0 | +2 | +2 | +2 | 0 | +6 | -7 |

| Station | Week ending Monday, 6 A.M., August 16 | | | | | | |
|---------------|---------------------------------------|--------------|--------------|------------------------|-----------------|----------------|----------------|
| | Temperatures | | | Growing degree days 1/ | | | |
| | Maxi- mum | Mini- mum | Aver- age | Current | 3-yr. av. 2/ | Totals 1981 | Totals 1982 |
| Moline | 82 | 49 | 67.1 | 122 | 2351 | 2338 | 2340 |
| Rockford | 82 | 47 | 64.8 | 105 | 2127 | 2160 | 2162 |
| Chi. O'Hare | 84 | 47 | 65.2 | 107 | 2155 | 2191 | 2065 |
| Quincy | 79 | 50 | 66.6 | 117 | 2562 | 2463 | 2305 |
| Decatur | 79 | 49 | 65.1 | 105 | 2453 | 2429 | 2316 |
| Peoria | 81 | 51 | 67.4 | 121 | 2396 | 2509 | 2405 |
| Watseka | 84 | 48 | 66.3 | 115 | 3/ | 2205 | 2151 |
| Springfield | 83 | 51 | 68.1 | 125 | 2586 | 2670 | 2530 |
| Brownstown | 84 | 51 | 69.1 | 134 | 3/ | 2722 | 2461 |
| St. Louis | 83 | 56 | 69.8 | 139 | 2877 | 2910 | 2750 |
| Dixon Springs | 88 | 56 | 71.6 | 149 | 3/ | 2933 | 2749 |

1/ Totals are accumulated from April 1. 2/ Average of accumulated totals for 1979, 1980, and 1981. 3/ Previous years' data are not available.

growing degree days (GDD's) are calculated by subtracting a 50-degree (F) base temperature from the average of the maximum and minimum temperatures for the day. The daily maximum temperature is limited to 86 degrees (F) and daily minimum to 50 degrees (F). Thus, if the mean temperature for the day is 75 degrees, then 25 GDD's will have been accumulated.

PRECIPITATION:
First figure--Current week, August 10-16
Parentheses--Previous week
M--Missing. T--Trace.



ACCUMULATED PRECIPITATION
(Inches)

LEGEND: Normal | Actual

April 1-July 31

April 1-Aug. 16

April 1-June 30 (reported
by National Weather Service)
July 1-Aug. 16 (estimated)

